

JPW



32692  
Customer Number

Patent  
Case No.: 58807US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: ROSENFLANZ, ANATOLY Z.  
Application No.: 10/666212 Group Art Unit: 1755  
Filed: September 18, 2003 Examiner: Elizabeth Bolden  
Title: CERAMICS COMPRISING  $Al_2O_3$ , REO,  $ZrO_2$  AND/OR  $HfO_2$ , AND  $Nb_2O_5$   
AND/OR  $Ta_2O_5$  AND METHODS OF MAKING THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:	
June 9, 2004 Date	 Signed by: Lisa Hengen

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

June 3, 2004  
Date

By:   
Gregory D. Allen, Reg. No.: 35,048  
Telephone No.: (651) 736-0641

Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Facsimile No.: 651-736-3833

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 1 of 14



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Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	A2	US- 906,339	12/08/1908	Tone	
	A3	US- 960,712	06/07/1910	Saunders	
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	A5	US- 1,107,011	08/11/1914	Allen	
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\*Examiner:

Date Considered:

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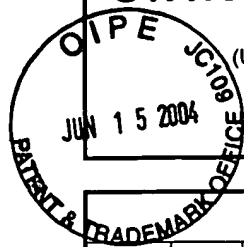
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(Use as many sheets as necessary)

Page 2 of 14

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		Doc. Number-(Kind Code if Known)			
	A29	US- 3,174,871	03/23/1965	Geffcken et al.	
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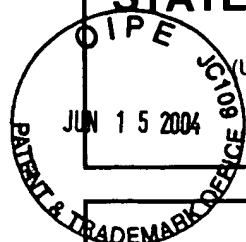
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Page 3 of 14

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Page 4 of 14

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Page 5 of 14

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Page 6 of 14



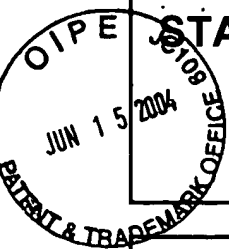
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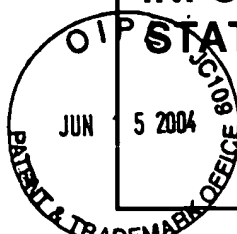
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Page 8 of 14



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	B20	GB	1 260 933 A	01/19/1972			
	B21	JP	200045128A	02/15/2000			X Machine
	B22	JP	200045129A	02/15/2000			X Machine
	B23	JP	06 040765A	2/15/1994			X Machine
	B24	JP	59 22 7726A	12/21/1984			X Machine

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Page 9 of 14

## Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B25	JP	2001294480	10/23/2001			X Machine
	B26	Hei	11-189926	07/13/1999			X Machine
	B27	Hei	4-119941	04/21/1992			X
	B28	S	63-156024	06/29/1988			X
	B29	S	63-303821	12/28/1988			X
	B30	WO	94/14722	07/07/1994			
	B31	WO	97/16385	05/09/1997			
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	B33	WO	00/34201	06/15/2000			X
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	B43	SU	1455569	10/04/1996			X

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	C1	Aguilar, E.A., "Processing and crystallization of rapidly solidified Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> fibres", British Ceramic Transactions, 2000, Vol. 99, No. 6, pp. 256-259.
	C2	Brewer, Luke N. et al., "Interface modification for increased fracture toughness in reaction-formed yttrium aluminum garnet/alumina eutectic composites," 1999, Vol. 14, No. 10, pp. 3907-3912.
	C3	Brockway et al. "Rapid Solidification of Ceramics a Technology Assessment", <u>Metals and Ceramics Information Center</u> , MCIC Report, January 1984 MCIC 84-49

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	C5	"China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals, August, 1997, 1 page.
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	C20	Hedrick, J., "Rare-Earth Metal Prices in the USA ca. 1960 to 1994", <u>J. Alloys and Compounds</u> , 1997, pp. 471-81.

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	C21	Hrovat et al., "Preliminary data on subsolidus phase equilibria in the $\text{La}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-Mn}_2\text{O}_3$ and $\text{La}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-Fe}_2\text{O}_3$ systems", <u>Journal of Materials Science Letters</u> , Vol. 14, 1995, pp. 265-267.
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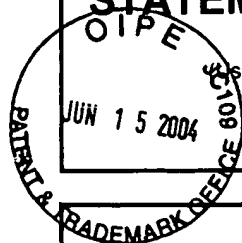
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	C54	Waku, Yoshiharu, "A New Ceramic Eutectic Composite with High Strength at 1873 K", <u>Advanced Materials</u> , Vol. 10, No. 8, 1998, pp. 615-617.
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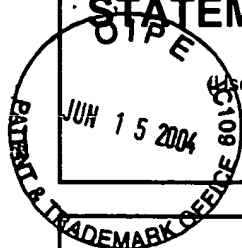
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	C69	U.S. Patent Application entitled "Fused $\text{Al}_2\text{O}_3$ - $\text{Y}_2\text{O}_3$ - $\text{ZrO}_2$ Eutectic Abrasive Particles, Abrasive Articles, And Methods Of Making And Using The Same", filed July 19, 2000, Rosenflanz having U.S. Serial No. 09/618,876 (Attorney Docket No. 55763US002).
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	C73	U.S. Patent Application entitled "Ceramics and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358910 (Attorney Docket No. 58325US002)
	C74	U.S. Patent Application entitled " $\text{Al}_2\text{O}_3$ - $\text{La}_2\text{O}_3$ - $\text{Y}_2\text{O}_3$ - $\text{MgO}$ Ceramics, and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358855 (Attorney Docket No. 58352US002)
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	C79	U.S. Application entitled "Methods of Making Ceramics Comprising $\text{Al}_2\text{O}_3$ , REO, $\text{ZrO}_2$ and/or $\text{HfO}_2$ and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ ", filed September 18, 2003, having U.S. Serial No. 10/666615 (Attorney Docket No. 58354US002)
	C80	U.S. Application entitled "Ceramics Comprising $\text{Al}_2\text{O}_3$ , $\text{Y}_2\text{O}_3$ , $\text{ZrO}_2$ and/or $\text{HfO}_2$ , and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ , and Methods of Making The Same", filed September 18, 2003, having U.S. Serial No. 10/666,098 (Attorney Docket No. 58961US002)
	C81	U.S. Application entitled "Agglomerate Abrasive Grain and a Method of Making the Same", filed February 11, 2004, having U.S. Serial No. 10/776156 (Attorney Docket No. 55304US016)

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.